

FIG. 1

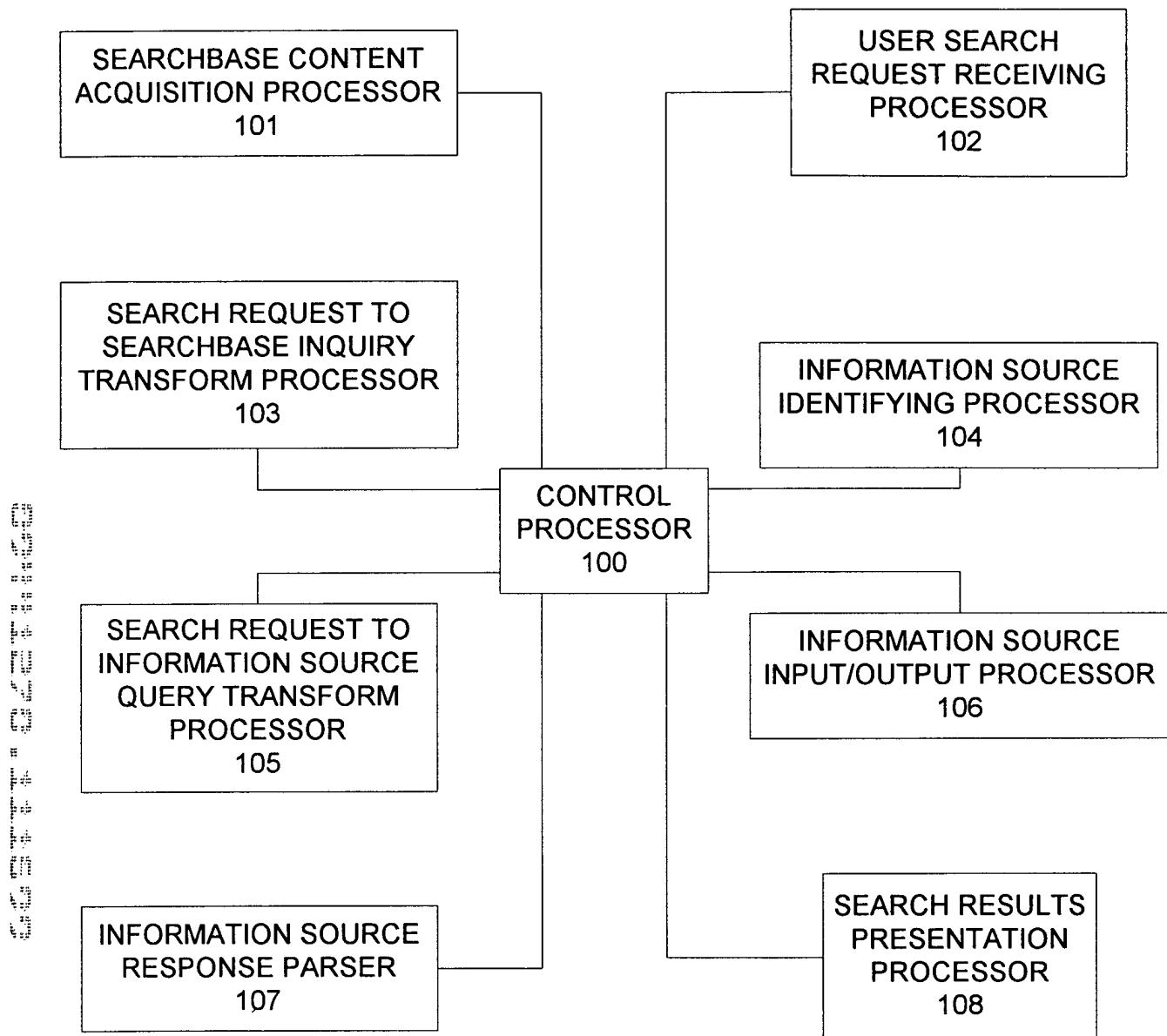


FIG. 2A

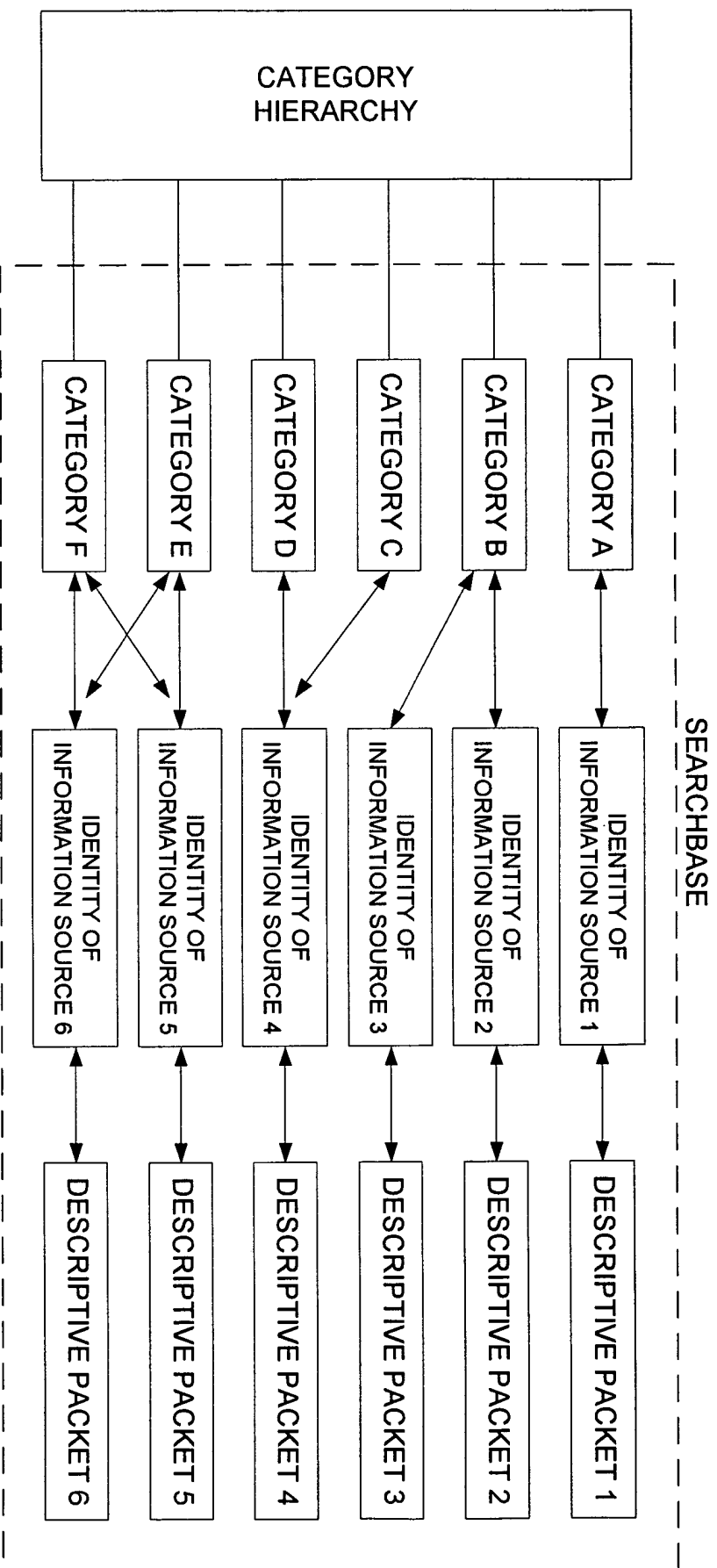


FIG. 2B

Categories

Vendor Associated
With Information
Source

apparelAlpha

apparel-shoeBeta

apparel-shoe-boy

apparel-shoe-girl

apparel-shoe-men

apparel-shoe-women

apparel-shoe-athleticGamma

apparel-shoe-athletic-hiking

apparel-shoe-athletic-riding

apparel-shoe-athletic-running

apparel-shoe-athletic-tennis

apparel-shoe-casual

apparel-shoe-dress

apparel-shoe-elevator

apparel-shoe-formal

apparel-shoe-formal-antique

•

•

•

apparel-shoe-sandal

apparel-shoe-slipper

apparel-shoe-slipper-ballet

apparel-shoe-slipper-bedroom

apparel-shoe-slipper-glass

apparel-sleepwear

•

•

•

books

FIG. 3A

Categories

Vendor(s) Associated
With Information Source

apparelAlpha, Beta, Gamma
apparel-shoeAlpha, Beta, Gamma
apparel-shoe-boyAlpha, Beta
apparel-shoe-girlAlpha, Beta
apparel-shoe-menAlpha, Beta
apparel-shoe-womenAlpha, Beta
apparel-shoe-athleticAlpha, Beta, Gamma
apparel-shoe-athletic-hikingAlpha, Beta, Gamma
apparel-shoe-athletic-ridingAlpha, Beta, Gamma
apparel-shoe-athletic-runningAlpha, Beta, Gamma
apparel-shoe-athletic-tennisAlpha, Beta, Gamma
apparel-shoe-casualAlpha, Beta
apparel-shoe-dressAlpha, Beta
apparel-shoe-elevatorAlpha, Beta
apparel-shoe-formalAlpha, Beta
apparel-shoe-formal-antiqueAlpha, Beta

•
•
•

apparel-shoe-sandalAlpha, Beta
apparel-shoe-slipperAlpha, Beta
apparel-shoe-slipper-balletAlpha, Beta
apparel-shoe-slipper-bedroomAlpha, Beta
apparel-shoe-slipper-glassAlpha, Beta
apparel-sleepwearAlpha

•
•
•

books

FIG. 3B

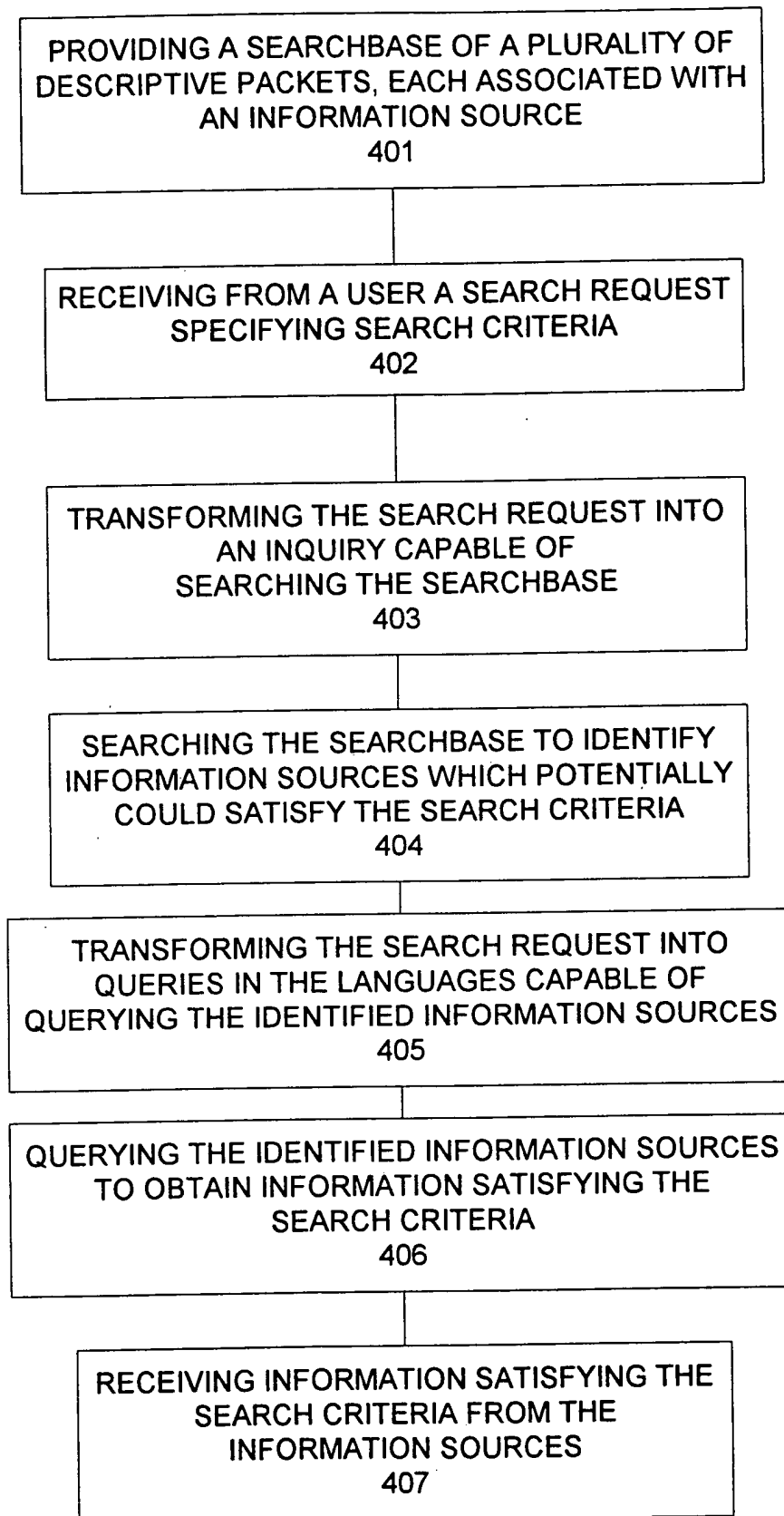


FIG. 4

PROVIDING A SEARCHBASE OF A PLURALITY OF
DESCRIPTIVE PACKETS, EACH ASSOCIATED WITH
AN INFORMATION SOURCE

501

RECEIVING FROM A USER A SEARCH REQUEST
SPECIFYING SEARCH CRITERIA

502

TRANSFORMING THE SEARCH REQUEST INTO
QUERIES IN THE LANGUAGES CAPABLE OF
QUERYING THE IDENTIFIED INFORMATION SOURCES

503

QUERYING THE IDENTIFIED INFORMATION SOURCES
TO OBTAIN INFORMATION SATISFYING THE
SEARCH CRITERIA

504

RECEIVING INFORMATION SATISFYING THE
SEARCH CRITERIA FROM THE
INFORMATION SOURCES

505

IDENTIFYING TO THE USER THE INFORMATION
SOURCES FROM WHICH INFORMATION
SATISFYING THE SEARCH CRITERIA WAS
RECEIVED

506

FIG. 5

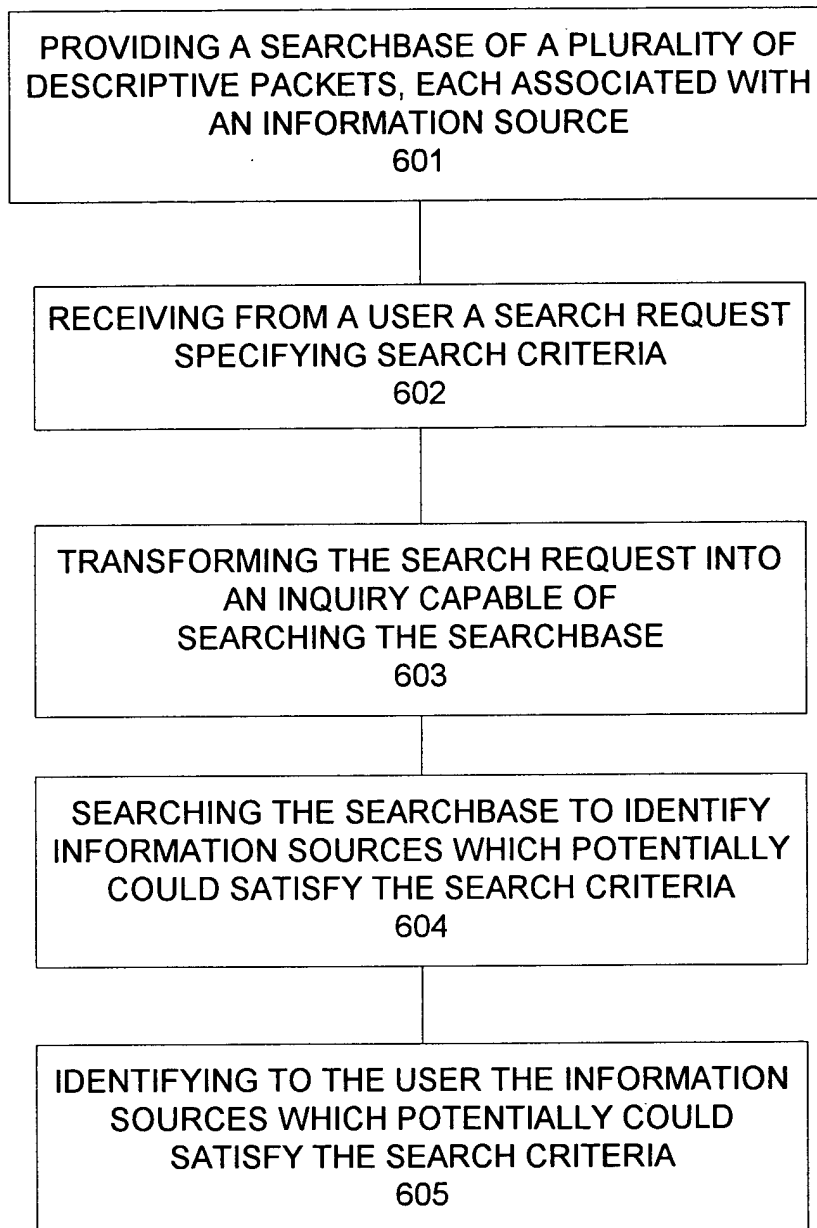


FIG. 6

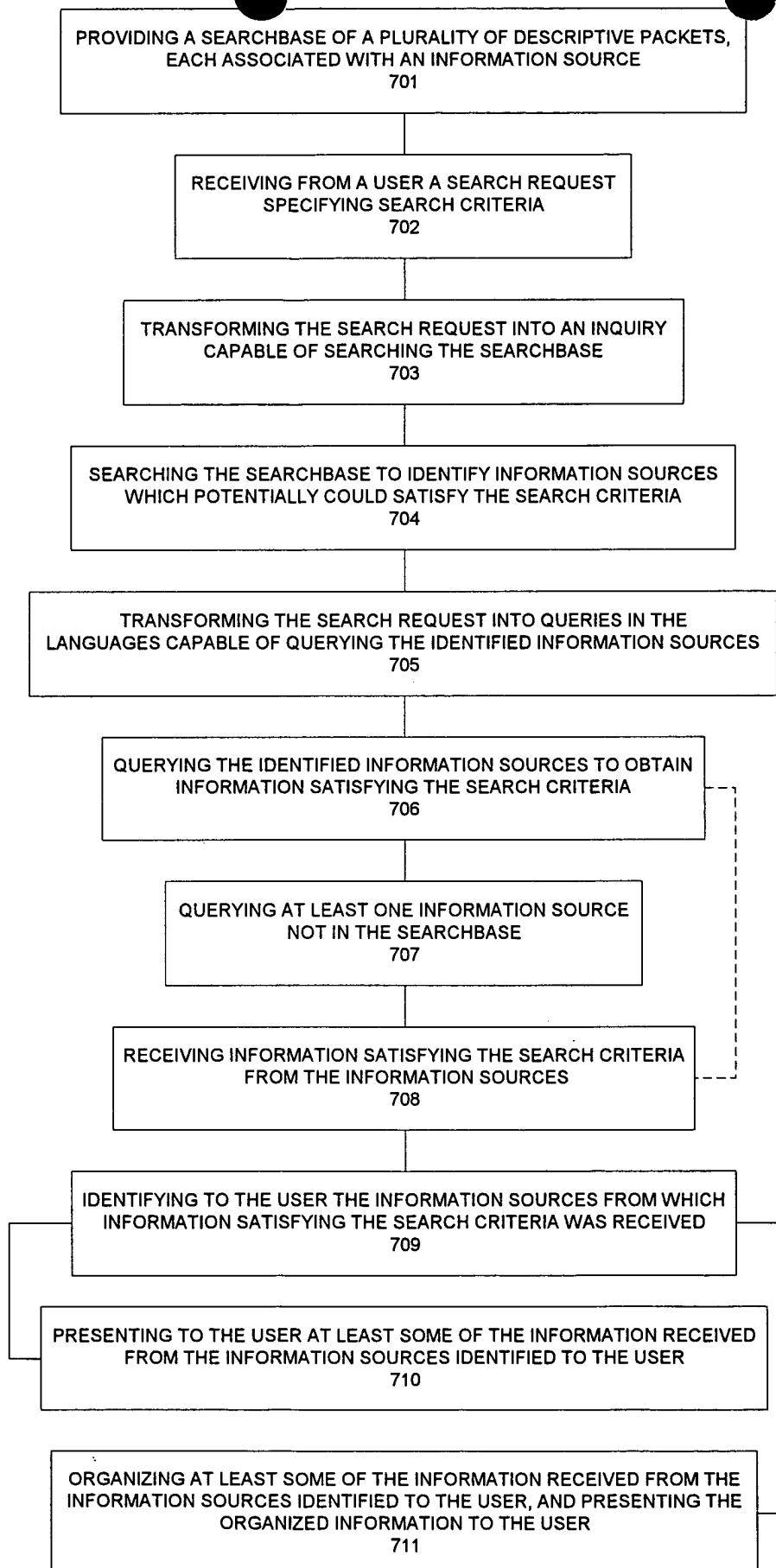


FIG. 7

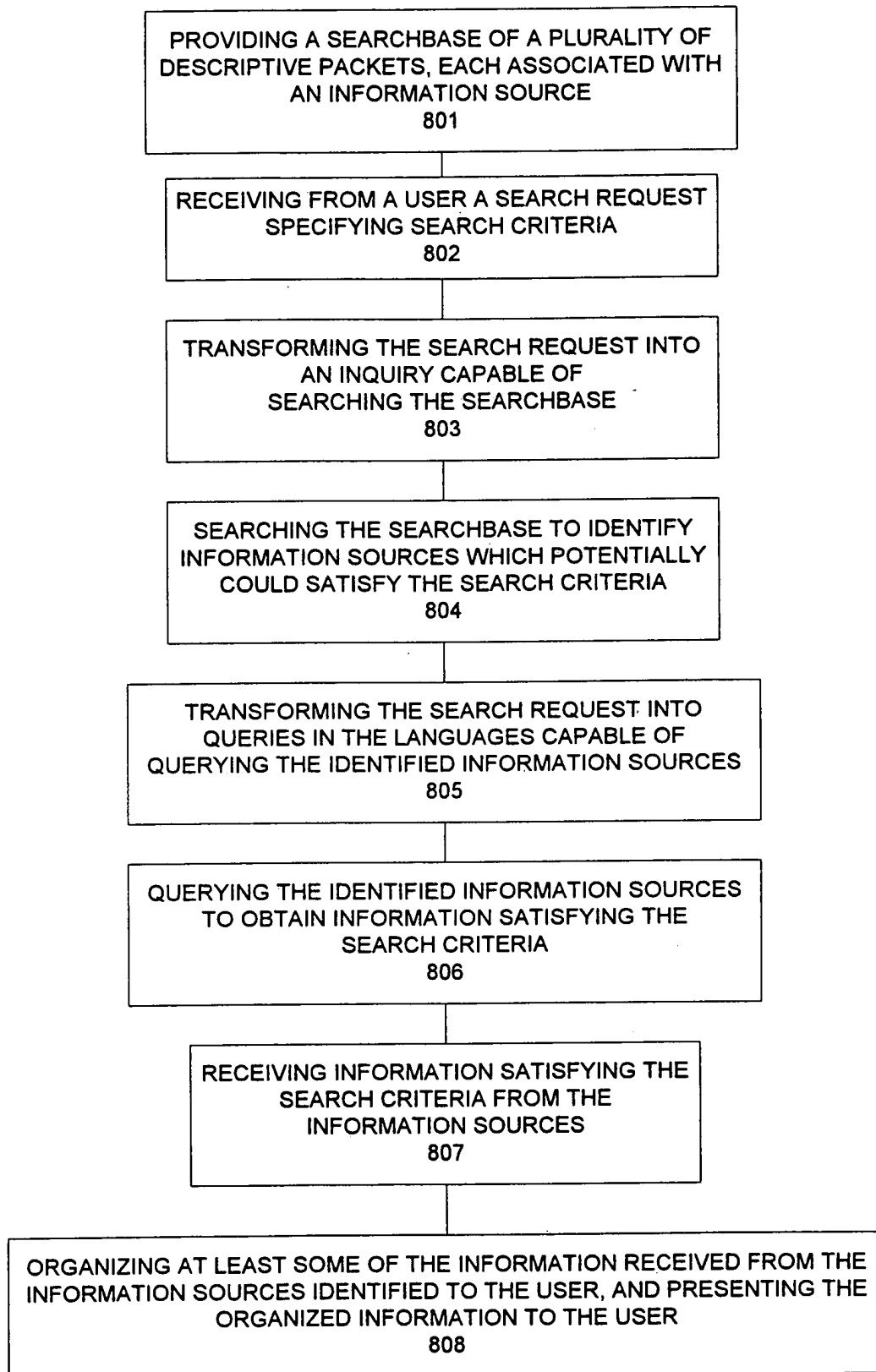


FIG. 8

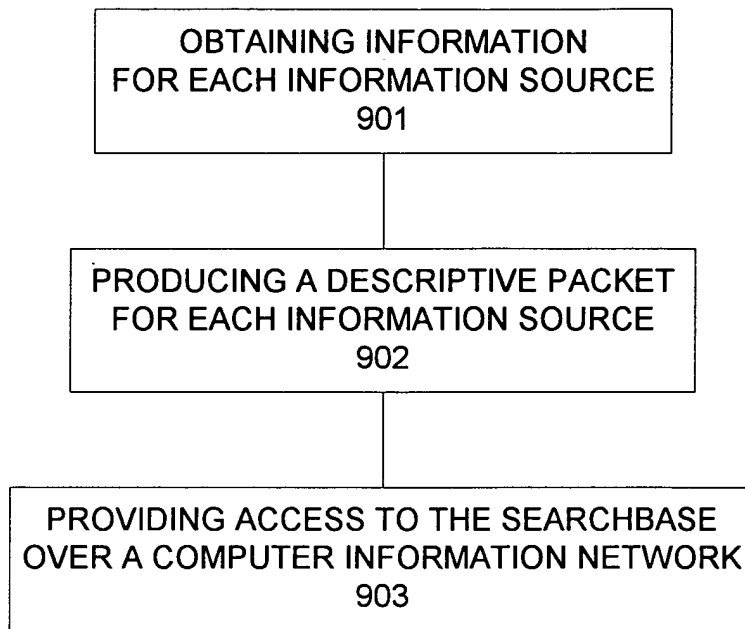


FIG. 9

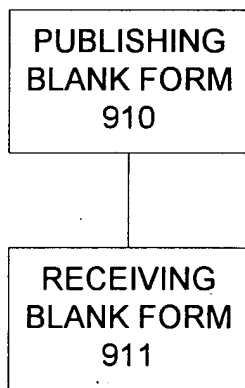


FIG. 9A

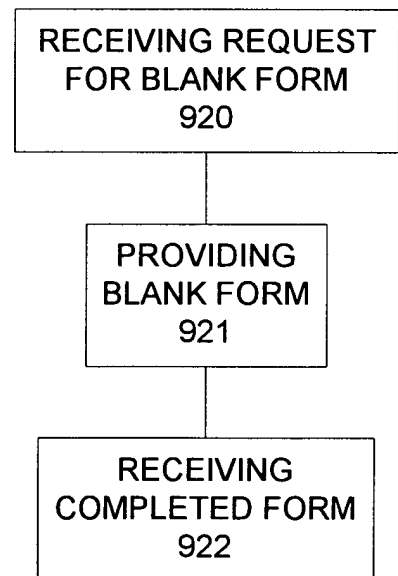


FIG. 9B

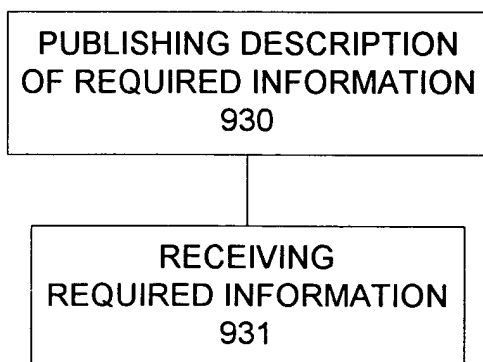


FIG. 9C

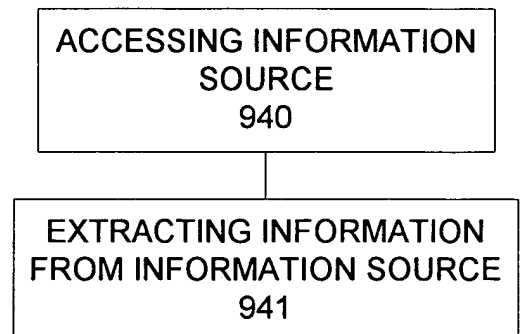


FIG. 9D

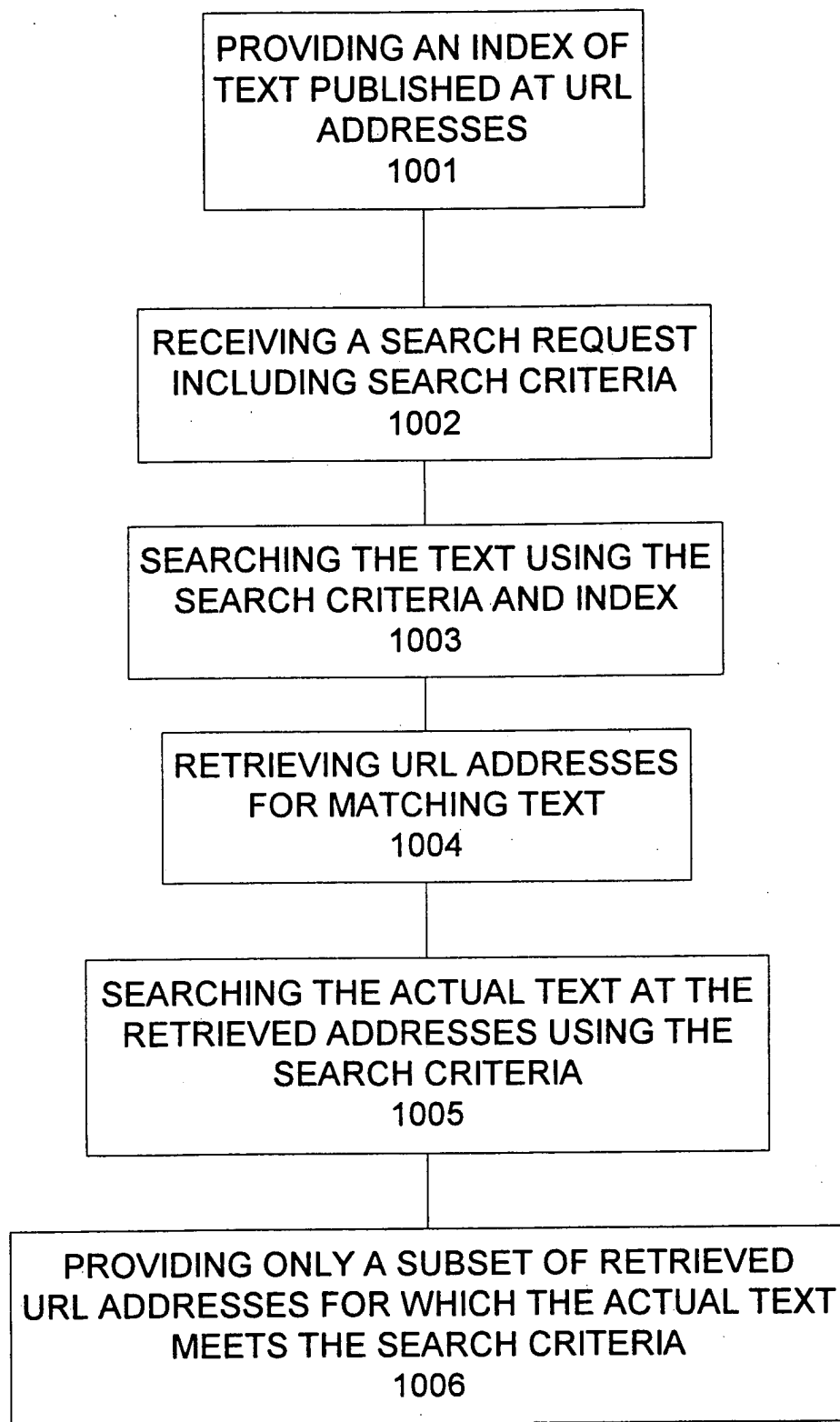


FIG. 10

apparel

shoe

boy, girl, men, women

athletic, casual, dress, elevator, formal, work

Gucci, Nike, Nine West, Reebok

boot, high-heel, loafer, sandal, slipper

Expansions under athletic, formal, and slipper are:

athletic

hiking, riding, running, tennis

formal

antique, costume, dress, modern

slipper

ballet, bedroom, glass

sleepwear

•
•
•

books

FIG. 11A

	Vendor	Description	Price	Other Attributes	Product ID
1	alpha	boot	\$120	grey	A0001, grey boots
2	alpha	men's dress	\$150	black	A0002, wonderful dress shoe in black
3	alpha	men's dress	\$100	brown	A0003, men's dress shoe in brown
4	alpha	women's loafer	\$60	burgandy	A0004, women's loafer in burgandy
5	alpha	women's slipper	\$30	white	A0005, women's slipper in white
6	beta	dress	\$75	black, sizes 9-12	B0001, dress shoes, various sizes, black
7	beta	dress	\$75	brown, sizes 7-12	B0002, dress shoes, various sizes, brown
8	beta	men's formal	\$95	black, sizes 7-12	B0003, formal shoe for men
9	beta	running	\$40	white	B0004, white running shoe
10	beta	men's tennis	\$35	white	B0005, white tennis shoe for men
11	gamma	riding	\$120		C0001, riding shoes
12	gamma	running	\$35	Nike	C0002, Nike running shoe
13	gamma	running	\$40	Reebok	C0003, Reebok running shoe
14	gamma	tennis	\$45		C0004, generic tennis shoe
15	gamma	waders	\$140		C0005, specialty shoe/boot: waders

FIG. 11B

Add InfoSource

[Searchcraft Home](#)
[About Us](#)
[Add InfoSource](#)

Add Your Site As An Information Source

Submitting this form will add you to our Searchbase™ and allow users to search your up-to-the-minute database.

Name:
 Company:
 Address:
 Phone:
 Fax:
 E-mail:

1201

1202 { What queries do you want sent to you?

- ☐ Send me every query.
☐ Do not send me any queries EXCEPT those about: (choose the categories for queries) (click "sub-menus" to see the sub-menus of selected categories)
 (For descriptions and other help, click here)

1203 {

<input type="checkbox"/> Apparel	<input type="checkbox"/> Flowers & Gifts	<input type="checkbox"/> Movies & Video	<input type="checkbox"/> Toys & Games
<input type="checkbox"/> Books	<input type="checkbox"/> Food & Drink	<input type="checkbox"/> Music	<input type="checkbox"/> Travel
<input type="checkbox"/> Computers	<input type="checkbox"/> Health & Beauty	<input type="checkbox"/> Office	more categories
<input type="checkbox"/> Electronics	<input type="checkbox"/> Home & Garden	<input type="checkbox"/> Sports & Fitness	sub-menus

We need to know how to formulate a query for you, how to communicate with you, and how to understand your responses.

- Choose One: ☐ I'll tell you now by filling in A, B, C, D, E, and F now.
☐ I'll tell you later. I'll fill in A, B, C, and D now so you can contact me.

1210

(click here for instructions)

The following inputs provide methods to query your site, to communicate, and to extract information from your response. For each set, choose the response corresponding to your site. (click here for further details.)

A. Language used to query your site:

<input type="checkbox"/> C/C++	<input type="checkbox"/> MQSeries	<input type="checkbox"/> URL
<input type="checkbox"/> Cobol	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> Corba	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

1204

B. Template of Query Language:

~ 1205

C. Protocol used for sending to you:

- ☐ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

~ 1206

D. Protocol used for receiving from you:

- ☐ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

~ 1207

E. Language used by your site to respond:

<input type="checkbox"/> C/C++	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> CSV	<input type="checkbox"/> Perl	<input type="checkbox"/> VBA
<input type="checkbox"/> Grep	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

1208

F. Template of response language:

~ 1209

[Thank you.](#)

Add InfoSource Sub-Categories

[Searchcraft Home](#)

[About Us](#)

[Add InfoSource](#)

This form shows you the sub-categories of the ones you selected on the previous page. Choose the categories for queries. (click "sub-menus" to see the sub-menus of selected categories)
(for descriptions and other help, click [here](#))

- Apparel:** ☐ Accessories ☐ Dresses ☐ Formalwear ☐ Jewelry
- ☐ Outerwear ☐ Pants ☐ Shoes ☐ Sleepwear
- ☐ Specialty ☐ Sportswear ☐ Suits ☐ Underwear
- ☐ Uniforms ☐ Watches ☐ Wedding ☐ Work

[more](#)

[sub-menus](#)

Thank you.

Powered by SearchcraftSM

} 1211

FIG. 12B

FIG. 12B

Add InfoSource Sub-Categories

[Searchcraft home](#)

[About Us](#)

[Add InfoSource](#)

This form shows you the sub-categories of the ones you selected on the previous page. Choose the categories for queries. (click "sub-menus" to see the sub-menus of selected categories) (for descriptions and other help, click [here](#))

- Shoes: ☐ boy ☐ girl ☐ men ☐ women
☐ athletic ☐ casual ☐ dress ☐ elevator
☐ formal ☐ work
☐ boot ☐ high heel ☐ loafer ☐ sandal
☐ slipper
☐ brand names
☐ price ranges

1212

[more](#)

[sub-menus](#)

Thank you.

Powered by SearchcraftSM

FIG. 12C

Searchcraft Home
About Us
Add InfoSource

Add Your Site As An Information Source

Submitting this form will add you to our Searchbase™ and allow users to search your up-to-the-minute database.

Name:
 Company:
 Address:
 Phone:
 Fax:
 E-mail:

What queries do you want sent to you? ☐ Send me every query.
☒ Do not send me any queries EXCEPT those about: (choose the categories for queries) (click "sub-menus" to see the sub-menus of selected categories)
 (For descriptions and other help, click here)

<input checked="" type="checkbox"/> Apparel	<input type="checkbox"/> Flowers & Gifts	<input type="checkbox"/> Movies & Video	<input type="checkbox"/> Toys & Games
<input type="checkbox"/> Books	<input type="checkbox"/> Food & Drink	<input type="checkbox"/> Music	<input type="checkbox"/> Travel
<input type="checkbox"/> Computers	<input type="checkbox"/> Health & Beauty	<input type="checkbox"/> Office	more categories
<input type="checkbox"/> Electronics	<input type="checkbox"/> Home & Garden	<input type="checkbox"/> Sports & Fitness	sub-menus

We need to know how to formulate a query for you, how to communicate with you, and how to understand your responses.

☒ I'll tell you now by filling in A, B, C, D, E, and F now.

Choose One: ☐ I'll tell you later. I'll fill in A, B, C, and D now so you can contact me.
 (click here for instructions)

The following inputs provide methods to query your site, to communicate, and to extract information from your response. For each set, choose the response corresponding to your site. (click here for further details.)

A. Language used to query your site:

<input type="checkbox"/> C/C++	<input type="checkbox"/> MQSeries	<input checked="" type="checkbox"/> URL
<input type="checkbox"/> Cobol	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> Corba	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

B. Template of Query Language:

C. Protocol used for sending to you:

☒ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

D. Protocol used for receiving from you:

☒ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

E. Language used by your site to respond:

<input type="checkbox"/> C/C++	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> CSV	<input type="checkbox"/> Perl	<input type="checkbox"/> VBA
<input checked="" type="checkbox"/> Grep	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

F. Template of response language:

Thank you.

Powered by SearchcraftSM

Add InfoSource

Searchcraft home
About Us
Add InfoSource

Add Your Site As An Information Source

Submitting this form will add you to our Searchbase™ and allow users to search your up-to-the-minute database.

Name:

Company:

Address:

Phone:

Fax:

E-mail:

What queries do you want sent to you?

☐ Send me every query.

☒ Do not send me any queries EXCEPT those about: (choose the categories for queries) (click "sub-menus" to see the sub-menus of selected categories)
(For descriptions and other help, click here)

<input type="checkbox"/> Apparel	<input type="checkbox"/> Flowers & Gifts	<input type="checkbox"/> Movies & Video	<input type="checkbox"/> Toys & Games
<input type="checkbox"/> Books	<input type="checkbox"/> Food & Drink	<input type="checkbox"/> Music	<input type="checkbox"/> Travel
<input type="checkbox"/> Computers	<input type="checkbox"/> Health & Beauty	<input type="checkbox"/> Office	more categories
<input type="checkbox"/> Electronics	<input type="checkbox"/> Home & Garden	<input type="checkbox"/> Sports & Fitness	sub-menus

We need to know how to formulate a query for you, how to communicate with you, and how to understand your responses.

☒ I'll tell you now by filling in A, B, C, D, E, and F now.

Choose One: ☐ I'll tell you later. I'll fill in A, B, C, and D now so you can contact me.

(click here for instructions)

The following inputs provide methods to query your site, to communicate, and to extract information from your response. For each set, choose the response corresponding to your site. (click here for further details.)

A. Language used to query your site:

<input checked="" type="checkbox"/> C/C++	<input type="checkbox"/> MQSeries	<input type="checkbox"/> URL
<input type="checkbox"/> Cobol	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> Corba	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

B. Template of Query Language:

C. Protocol used for sending to you:

☐ HTTP ☐ HTTPS ☐ FTP ☒ TCP/IP ☐ e-mail [more](#)

D. Protocol used for receiving from you:

☐ HTTP ☐ HTTPS ☐ FTP ☒ TCP/IP ☐ e-mail [more](#)

E. Language used by your site to respond:

<input type="checkbox"/> C/C++	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input checked="" type="checkbox"/> CSV	<input type="checkbox"/> Perl	<input type="checkbox"/> VBA
<input type="checkbox"/> Grep	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

F. Template of response language:

Thank you.

Add InfoSource Sub-Categories

[Searchcraft Home](#)

[About Us](#)

[Add InfoSource](#)

This form shows you the sub-categories of the ones you selected on the previous page. Choose the categories for queries. (click "sub-menus" to see the sub-menus of selected categories)
(for descriptions and other help, click [here](#))

- Apparel:** ☐ Accessories ☐ Dresses ☐ Formalwear ☐ Jewelry
- ☐ Outerwear ☐ Pants ☒ Shoes ☐ Sleepwear
- ☐ Specialty ☐ Sportswear ☐ Suits ☐ Underwear
- ☐ Uniforms ☐ Watches ☐ Wedding ☐ Work

[more](#)

[sub-menus](#)

Thank you.

Powered by SearchcraftSM

FIG. 14B

Searchcraft Home
About Us
Add InfoSource

Add Your Site As An Information Source

Submitting this form will add you to our Searchbase™ and allow users to search your up-to-the-minute database.

Name: George Gamma

Company: Gamma

Address: 5A Memorial Drive

Phone: (617) 789-3456

Fax: (617) 789-3457

E-mail: george@gamma.com

What queries do
you want sent to
you?

☐ Send me every query.

☒ Do not send me any queries EXCEPT those about: (choose the categories for queries) (click "sub-menus" to see the sub-menus of selected categories)
(For descriptions and other help, click here)

<input type="checkbox"/> Apparel	<input type="checkbox"/> Flowers & Gifts	<input type="checkbox"/> Movies & Video	<input type="checkbox"/> Toys & Games
<input type="checkbox"/> Books	<input type="checkbox"/> Food & Drink	<input type="checkbox"/> Music	<input type="checkbox"/> Travel
<input type="checkbox"/> Computers	<input type="checkbox"/> Health & Beauty	<input type="checkbox"/> Office	more categories
<input type="checkbox"/> Electronics	<input type="checkbox"/> Home & Garden	<input type="checkbox"/> Sports & Fitness	sub-menus

We need to know how to formulate a query for you, how to communicate with you, and how to understand your responses.

☒ I'll tell you now by filling in A, B, C, D, E, and F now.

Choose One: ☐ I'll tell you later. I'll fill in A, B, C, and D now so you can contact me.

(click here for instructions)

The following inputs provide methods to query your site, to communicate, and to extract information from your response. For each set, choose the response corresponding to your site. (click here for further details.)

A. Language used
to query your
site:

<input type="checkbox"/> C/C++	<input type="checkbox"/> MQSeries	<input type="checkbox"/> URL
<input type="checkbox"/> Cobol	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> Corba	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

B. Template of
Query Language:

<http://www.gamma.com/bin/getshoes?t=<type>&c=<color>&p=<p>>

C. Protocol used
for sending to
you:

☒ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

D. Protocol used
for receiving from
you:

☒ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

E. Language used
by your site to
respond:

<input type="checkbox"/> C/C++	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input checked="" type="checkbox"/> CSV	<input type="checkbox"/> Perl	<input type="checkbox"/> VBA
<input type="checkbox"/> Grep	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

F. Template of
response
language:

<id>, <price>, <color>, <description>

Submit

Thank you.

Clear

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Add InfoSource Sub-Categories

[Searchcraft Home](#)

[About Us](#)

[Add InfoSource](#)

This form shows you the sub-categories of the ones you selected on the previous page. Choose the categories for queries. (click "sub-menus" to see the sub-menus of selected categories)
(for descriptions and other help, [click here](#))

- Apparel:** ☐ Accessories ☐ Dresses ☐ Formalwear ☐ Jewelry
☐ Outerwear ☐ Pants ☐ Shoes ☐ Sleepwear
☐ Specialty ☐ Sportswear ☐ Suits ☐ Underwear
☐ Uniforms ☐ Watches ☐ Wedding ☐ Work

[more](#)

[sub-menus](#)

Thank you.

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FIG. 15B

Add InfoSource Sub-Categories

[Searchcraft home](#)

[About Us](#)

[Add InfoSource](#)

This form shows you the sub-categories of the ones you selected on the previous page. Choose the categories for queries. (click "sub-menus" to see the sub-menus of selected categories) (for descriptions and other help, click [here](#))

- Shoes: ☐ boy ☐ girl ☐ men ☐ women
☒ athletic ☐ casual ☐ dress ☐ elevator
☐ formal ☐ work
☐ boot ☐ high heel ☐ loafer ☐ sandal
☐ slipper
☐ brand names
☐ price ranges

[more](#)

[sub-menus](#)

Thank you.

Powered by SearchcraftSM

FIG. 15C

Add InfoSource

Searchcraft Home
About Us
Add InfoSource

Add Your Site As An Information Source

Submitting this form will add you to our Searchbase™
and allow users to search your up-to-the-minute database.

Name: Denise Delta

Company: Delta

Address: 1 Broadway

Phone: 617-716-9876

Fax: 617-716-9875

E-mail: denise@delta.com

What queries do
you want sent to
you?

☒ Send me every query.

☐ Do not send me any queries EXCEPT those about: (choose the categories for queries) (click
"sub-menus" to see the sub-menus of selected categories)
(For descriptions and other help, click here)

<input type="checkbox"/> Apparel	<input type="checkbox"/> Flowers & Gifts	<input type="checkbox"/> Movies & Video	<input type="checkbox"/> Toys & Games
<input type="checkbox"/> Books	<input type="checkbox"/> Food & Drink	<input type="checkbox"/> Music	<input type="checkbox"/> Travel
<input type="checkbox"/> Computers	<input type="checkbox"/> Health & Beauty	<input type="checkbox"/> Office	more categories
<input type="checkbox"/> Electronics	<input type="checkbox"/> Home & Garden	<input type="checkbox"/> Sports & Fitness	sub-menus

We need to know how to formulate a query for you, how to communicate with you, and how to understand your responses.

☐ I'll tell you now by filling in A, B, C, D, E, and F now.

Choose One: ☒ I'll tell you later. I'll fill in A, B, C, and D now so you can contact me.
(click here for instructions)

The following inputs provide methods to query your site, to communicate, and to extract information from your response. For each set, choose the response corresponding to your site. (click here for further details.)

A. Language used
to query your
site:

<input type="checkbox"/> C/C++	<input type="checkbox"/> MQSeries	<input checked="" type="checkbox"/> URL
<input type="checkbox"/> Cobol	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> Corba	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

B. Template of
Query Language:

http://www.delta.com/cgi/getmethods

C. Protocol used
for sending to
you:

☒ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

D. Protocol used
for receiving from
you:

☒ HTTP ☐ HTTPS ☐ FTP ☐ TCP/IP ☐ e-mail [more](#)

E. Language used
by your site to
respond:

<input type="checkbox"/> C/C++	<input type="checkbox"/> Pascal	<input type="checkbox"/> VBScript
<input type="checkbox"/> CSV	<input type="checkbox"/> Perl	<input type="checkbox"/> VBA
<input type="checkbox"/> Grep	<input type="checkbox"/> Python	<input type="checkbox"/> XML
<input type="checkbox"/> Java	<input type="checkbox"/> TCL	more

F. Template of
response
language:

Submit

Thank you.

Clear

Add InfoSource ftp/email

[Searchcraft home](#)
[About Us](#)
[Add InfoSource](#)

This page provides directions for sending your site information to us via either FTP or e-mail. ([For more detailed instructions, click here](#))

Your file or the body of your e-mail must be in text form and have lines that begin with a keyword followed by a colon (":"), then followed by your information. The keywords are below.	
Keyword	Description of information
Name	Your name, for contact purposes
Company	Your company
Address	Your mailing address
Phone	Your telephone number
Fax	Your facsimile number
e-mail	the e-mail address you want correspondence to go to
query categories	categories in which you want queries to be sent to you
method definition time	either "now" or "later". "Now" means you will fill in the rest of the fields, while "later" means you will tell us only how to query your site to contact you.
query language	One of the acceptable languages currently processed.
query template	A template in the above query language we can process to formulate a query to you
send protocol	One of the acceptable protocols currently allowed.
receive protocol	One of the acceptable protocols currently allowed.
response language	One of the acceptable languages currently processed.
parse template	A template in the above receive language we can process to parse a query received from you

Please send your file as the body of an e-mail message to infosource@searchcraft.com or ftp it to <ftp:infosource.searchcraft.com>.

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FIG. 17